

Title Subtitle author 2023/12







This template is a based on SINTEF Presentation from Federico Zenith and its derivation Beamer-LaTeX-Themes from Liu Qilong

THU style adaptation contributed by Wenhao Fang SDU style adaptation contributed by Penghong Gao

In the following you find a brief introduction on how to use $\mathbb{E}_{\mathbb{E}}X$ and the beamer package to prepare slides, based on the one written by Federico Zenith for SINTEF Presentation

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Beamer for SINTEF slides

- We assume you can use LEX; if you cannot, you can learn it here
- Beamer is one of the most popular and powerful document classes for presentations in www.englight.com powerful document classes for presentations
- Beamer has also a detailed user manual
- Here we will present only the most basic features to get you up to speed



Beamer vs. PowerPoint

Compared to PowerPoint, using LEX is better because:

- It is not What-You-See-Is-What-You-Get, but What-You-*Mean*-Is-What-You-Get: you write the content, the computer does the typesetting
- Produces a pdf: no problems with fonts, formulas, program versions
- Easier to keep consistent style, fonts, highlighting, etc.
- Math typesetting in T_EX is the best:

$$\mathrm{i}\,\hbar\frac{\partial}{\partial t}\Psi(\mathbf{r},t) = -\frac{\hbar^2}{2\,m}\nabla^2\Psi(\mathbf{r},t) + V(\mathbf{r})\Psi(\mathbf{r},t)$$



Getting Started Selecting the SINTEF Theme

To start working with sintefbeamer, start a $\[mathbb{E}T_EX$ document with the preamble:

Minimum SINTEF Beamer Document

\documentclass{beamer}

```
\usetheme{sintef}
\begin{document}
\begin{frame}{Hello, world!}
\end{frame}
\end{document}
```



To set a typical title page, you call some commands in the preamble:

The Commands for the Title Page

```
\title{Sample Title}
```

```
\subtitle{Sample subtitle}
```

```
\author{First Author, Second Author}
```

```
\date{\today} % Can also be (ab)used for conference name &c.
```

You can then write out the title page with \maketitle.

To set a **background image** use the \titlebackground command before \maketitle; its only argument is the name (or path) of a graphic file.

If you use the **starred version** \titlebackground*, the image will be clipped to a split view on the right side of the title slide.



Writing a Simple Slide It's really easy!

• A typical slide has bulleted lists



Writing a Simple Slide It's really easy!

- A typical slide has bulleted lists
- These can be uncovered in sequence



Writing a Simple Slide It's really easy!

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Code for a Page with an Itemised List

```
\begin{frame}{Writing a Simple Slide}
 \framesubtitle{It's really easy!}
 \begin{itemize}[<+->]
   \item A typical slide has bulleted lists
   \item These can be uncovered in sequence
   \end{itemize}\end{frame}
```



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- You can select the white or maincolor slide style in the preamble with \themecolor{white} (default) or \themecolor{main}
 - You should not change these within the document: Beamer does not like it
 - If you really must, you may have to add \usebeamercolor[fg]{normal text} in the slide
- You can change the **footline colour** with \footlinecolor{color}
 - Place the command *before* a new frame
 - There are four "official" colors: maincolor, sintefyellow,
 - sintefgreen, sintefdarkgreen
 - Default is no footline; you can restore it with \footlinecolor{}
 - Others may work, but no guarantees!
 - Should not be used with the maincolor theme!



Blocks 2 Personalization

Standard Blocks

These have a color coordinated with the footline (and grey in the blue theme)

\begin{block}{title} $\ \block\}$

Colour Blocks

Similar to the ones on the left, but you pick the colour. Text will be white by default, but you may set it with an optional argument.

\begin{colorblock}[black]{sinteflightgreen}{title} content... \end{colorblock}

The "official" colours of colour blocks are:

sinteflilla.

maincolor, sintefdarkgreen, and

sintefyellow.



Using Colours 2 Personalization

- You can use colours with the \textcolor{<color name>}{text} command
- The colours are defined in the sintefcolor package:

_	Primary colours:	m	maincolor and its sidekick				sintefgrey			
_	Three shades of green:			sinteflightgreen,			sintefgreen,			
	sintefdark	greer	n							
_	Additional colours:		sin	tefyellow,		sintef	purple,		sinteflilla	£,
	testcolornuaablue									

- $\circ~$ These may be shaded—see the <code>sintefcolor</code> documentation or the <code>SINTEF</code> profile manual
- Do not abuse colours: \emph{} is usually enough
- Use \alert{} to bring the focus somewhere



Using Colours 2 Personalization

- You can use colours with the \textcolor{<color name>}{text} command
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 - Primary colours: maincolor and its sidekick sintefgrey
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 - $\circ~$ These may be shaded—see the <code>sintefcolor</code> documentation or the <code>SINTEF</code> profile manual
- Do not abuse colours: \emph{} is usually enough
- Use $\label{eq:lert}$ to bring the focus somewhere
- If you highlight too much, you don't highlight at all!





Adding images works like in normal LETEX:

Code for Adding Images \usepackage{graphicx} % ... \includegraphics[width=\textwidth] {assets/sdu_logo}





Splitting in Columns 2 Personalization

Splitting the page is easy and common; typically, one side has a picture and the other text: This is the first column And this the second

Column Code							
\begin{columns}							
\begin{column}{0.6\textwidth}							
This is the first column							
\end{column}							
\begin{column}{0.3\textwidth}							
And this the second							
\end{column}							
% There could be more!							
\end{columns}							



Special Slides 2 Personalization

- Chapter slides
- Side-picture slides







Chapter slides 2 Personalization

- Similar to frames, but with a few more options
- Opened with \begin{chapter}[<image>]{<color>}{<title>}
- Image is optional, colour and title are mandatory



- Strangely enough, these are *more* than the official colours for the footline.
- It may still be a nice touch to change the footline of following slides to the same color of a chapter slide. Your choice.
- Otherwise, chapter behaves just like frame.



Side-Picture Slides 2 Personalization

- Opened with \begin{sidepic}{<image>}{<title>}
- Otherwise, sidepic works just like frame





Fonts 2 Personalization

- The paramount task of fonts is being readable
- There are good ones...
 - Use serif fonts only with high-definition projectors
 - Use sans-serif fonts otherwise (or if you simply prefer them)
- ... and not so good ones:
 - Never use monospace for normal text
 - Gothic, calligraphic or weird fonts should always be avoided



- To insert a final slide with the title and final thanks, use \backmatter.
 - The title also appears in footlines along with the author name, you can change this text with \footlinepayoff
 - You can remove the title from the final slide with \backmatter [notitle]
- The aspect ratio defaults to 16:9, and you should not change it to 4:3 for old projectors as it is inherently impossible to perfectly convert a 16:9 presentation to 4:3 one; spacings *will* break
 - $-\,$ The <code>aspectratio</code> argument to the <code>beamer</code> class is overridden by the SINTEF theme
 - If you *really* know what you are doing, check the package code and look for the geometry class.



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- Enough for an introduction! You should know enough by now
- If you have corrections or suggestions, send them to me!



Title

Thank you for listening! Any questions?

